



SEQUENCE LISTING

<110> Frank, Glenn R.
Porter, James P.
Rushlow, Keith E.
Wassom, Donald L.

<120> METHOD TO DETECT IgE

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<140> 10/763,400

<141> 2004-01-23

<150> 09/944,277

<151> 2001-08-30

<150> 09/285,873

<151> 1999-03-31

<150> 08/756,387

<151> 1996-11-26

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<170> PatentIn version 3.2

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<213> Homo sapiens

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Met Ala Pro

1

gcc atg gaa tcc cct act cta ctg tgt gta gcc tta ctg ttc ttc gct 163

Ala Met Glu Ser Pro Thr Leu Leu Cys Val Ala Leu Leu Phe Phe Ala

5

10

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cca gat ggc gtg tta gca gtc cct cag aaa cct aag gtc tcc ttg aac 211

Pro Asp Gly Val Leu Ala Val Pro Gln Lys Pro Lys Val Ser Leu Asn

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cct cca tgg aat aga ata ttt aaa gga gag aat gtg act ctt aca tgt 259

Pro Pro Trp Asn Arg Ile Phe Lys Gly Glu Asn Val Thr Leu Thr Cys

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Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp Phe His Asn	
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ggc agc ctt tca gaa gag aca aat tca agt ttg aat att gtg aat gcc	355
Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile Val Asn Ala	
70 75 80	
aaa ttt gaa gac agt gga gaa tac aaa tgt cag cac caa caa gtt aat	403
Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln Gln Val Asn	
85 90 95	
gag agt gaa cct gtg tac ctg gaa gtc ttc agt gac tgg ctg ctc ctt	451
Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp Leu Leu Leu	
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Gln Ala Ser Ala Glu Val Val Met Glu Gly Gln Pro Leu Phe Leu Arg	
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tgc cat ggt tgg agg aac tgg gat gtg tac aag gtg atc tat tat aag	547
Cys His Gly Trp Arg Asn Trp Asp Val Tyr Lys Val Ile Tyr Tyr Lys	
135 140 145	
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Asp Gly Glu Ala Leu Lys Tyr Trp Tyr Glu Asn His Asn Ile Ser Ile	
150 155 160	
aca aat gcc aca gtt gaa gac agt gga acc tac tac tgt acg ggc aaa	643
Thr Asn Ala Thr Val Glu Asp Ser Gly Thr Tyr Tyr Cys Thr Gly Lys	
165 170 175	
gtg tgg cag ctg gac tat gag tct gag ccc ctc aac att act gta ata	691
Val Trp Gln Leu Asp Tyr Glu Ser Glu Pro Leu Asn Ile Thr Val Ile	
180 185 190 195	
aaa gct ccg cgt gag aag tac tgg cta caa ttt ttt atc cca ttg ttg	739
Lys Ala Pro Arg Glu Lys Tyr Trp Leu Gln Phe Phe Ile Pro Leu Leu	
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Val Val Ile Leu Phe Ala Val Asp Thr Gly Leu Phe Ile Ser Thr Gln	
215 220 225	
cag cag gtc aca ttt ctc ttg aag att aag aga acc agg aaa ggc ttc	835
Gln Gln Val Thr Phe Leu Leu Lys Ile Lys Arg Thr Arg Lys Gly Phe	
230 235 240	
aga ctt ctg aac cca cat cct aag cca aac ccc aaa aac aac	877
Arg Leu Leu Asn Pro His Pro Lys Pro Asn Pro Lys Asn Asn	
245 250 255	
tgatataatt actcaagaaa tatttgcaac attagttttt ttccagcatc agcaattgct	937
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35 40 45

Leu Thr Cys Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp
50 55 60

Phe His Asn Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile
65 70 75 80

Val Asn Ala Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln
85 90 95

Gln Val Asn Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp
100 105 110

Leu Leu Leu Gln Ala Ser Ala Glu Val Val Met Glu Gly Gln Pro Leu
115 120 125

Phe Leu Arg Cys His Gly Trp Arg Asn Trp Asp Val Tyr Lys Val Ile
130 135 140

Tyr Tyr Lys Asp Gly Glu Ala Leu Lys Tyr Trp Tyr Glu Asn His Asn
145 150 155 160

Ile Ser Ile Thr Asn Ala Thr Val Glu Asp Ser Gly Thr Tyr Tyr Cys
165 170 175

Thr Gly Lys Val Trp Gln Leu Asp Tyr Glu Ser Glu Pro Leu Asn Ile
180 185 190

Thr Val Ile Lys Ala Pro Arg Glu Lys Tyr Trp Leu Gln Phe Phe Ile
195 200 205

Pro Leu Leu Val Val Ile Leu Phe Ala Val Asp Thr Gly Leu Phe Ile
210 215 220

Ser Thr Gln Gln Gln Val Thr Phe Leu Leu Lys Ile Lys Arg Thr Arg
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tcattttattc aaccaatggt aattgagcac ttactattac atgccactta accagtttca 180
ctcagtttaa tgaagcattt ctataaatcc ttgagcacag acgtttctat gtatattgca 240
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tctgaagcct ttcttggttc tcttaatctt caagagaaat gtgacctgct gctgagttga 420
gataaataat cctgtgtcca cagcaaacag aatcaccacc aacaatggga taaaaaattg 480
tagccagtac ttctcacgag gagcttttat tacagtaatg ttgaggggct cagactcata 540
gtccagctgc cacactttgc ccgtacagta gtaggttcca ctgtcttcaa ctgtggcatt 600
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gatcaccttg tacacatccc agttcctcca accatggcac ctgaggaaga ggggctggcc 720
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cacagggttca ctctcattaa cttgttggtg ctgacatttg tattctccac tgtcttcaaa 840
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 ccatttggtg gaactgactt caaagaaatt gttcccatta catgtaagag tcacattctc 960
 tccttttaaat attctattcc atggagggtt caaggagacc ttaggtttct gagggactgc 1020
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 ggcaggagcc atcttcttca tggactcctg gtgcttactg tgctggagag atctaaggct 1140
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 Phe Phe Ala Pro Asp Gly Val Leu Ala Val Pro Gln Lys Pro Lys Val
 20 25 30
 tcc ttg aac cct cca tgg aat aga ata ttt aaa gga gag aat gtg act 144
 Ser Leu Asn Pro Pro Trp Asn Arg Ile Phe Lys Gly Glu Asn Val Thr
 35 40 45
 ctt aca tgt aat ggg aac aat ttc ttt gaa gtc agt tcc acc aaa tgg 192
 Leu Thr Cys Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp
 50 55 60
 ttc cac aat ggc agc ctt tca gaa gag aca aat tca agt ttg aat att 240
 Phe His Asn Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile
 65 70 75 80
 gtg aat gcc aaa ttt gaa gac agt gga gaa tac aaa tgt cag cac caa 288
 Val Asn Ala Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln
 85 90 95
 caa gtt aat gag agt gaa cct gtg tac ctg gaa gtc ttc agt gac tgg 336
 Gln Val Asn Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp
 100 105 110
 ctg ctc ctt cag gcc tct gct gag gtg gtg atg gag ggc cag ccc ctc 384
 Leu Leu Leu Gln Ala Ser Ala Glu Val Val Met Glu Gly Gln Pro Leu
 115 120 125

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Phe Leu Arg Cys His Gly Trp Arg Asn Trp Asp Val Tyr Lys Val Ile	
130 135 140	
tat tat aag gat ggt gaa gct ctc aag tac tgg tat gag aac cac aac	480
Tyr Tyr Lys Asp Gly Glu Ala Leu Lys Tyr Trp Tyr Glu Asn His Asn	
145 150 155 160	
atc tcc att aca aat gcc aca gtt gaa gac agt gga acc tac tac tgt	528
Ile Ser Ile Thr Asn Ala Thr Val Glu Asp Ser Gly Thr Tyr Tyr Cys	
165 170 175	
acg ggc aaa gtg tgg cag ctg gac tat gag tct gag ccc ctc aac att	576
Thr Gly Lys Val Trp Gln Leu Asp Tyr Glu Ser Glu Pro Leu Asn Ile	
180 185 190	
act gta ata aaa gct ccg cgt gag aag tac tgg cta caa ttt ttt atc	624
Thr Val Ile Lys Ala Pro Arg Glu Lys Tyr Trp Leu Gln Phe Phe Ile	
195 200 205	
cca ttg ttg gtg gtg att ctg ttt gct gtg gac aca gga tta ttt atc	672
Pro Leu Leu Val Val Ile Leu Phe Ala Val Asp Thr Gly Leu Phe Ile	
210 215 220	
tca act cag cag cag gtc aca ttt ctc ttg aag att aag aga acc agg	720
Ser Thr Gln Gln Gln Val Thr Phe Leu Leu Lys Ile Lys Arg Thr Arg	
225 230 235 240	
aaa ggc ttc aga ctt ctg aac cca cat cct aag cca aac ccc aaa aac	768
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Asn	

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gttctcatatc cagtacttga gagcttcacc atccttataa tagatcacct tgtacacatc	360
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Glu Val Ser Ser Thr Lys Trp Phe His Asn Gly Ser Leu Ser Glu Glu
 35 40 45

Thr Asn Ser Ser Leu Asn Ile Val Asn Ala Lys Phe Glu Asp Ser Gly
 50 55 60

Glu Tyr Lys Cys Gln His Gln Gln Val Asn Glu Ser Glu Pro Val Tyr
 65 70 75 80

Leu Glu Val Phe Ser Asp Trp Leu Leu Leu Gln Ala Ser Ala Glu Val
 85 90 95

Val Met Glu Gly Gln Pro Leu Phe Leu Arg Cys His Gly Trp Arg Asn
 100 105 110

Trp Asp Val Tyr Lys Val Ile Tyr Tyr Lys Asp Gly Glu Ala Leu Lys
 115 120 125

Tyr Trp Tyr Glu Asn His Asn Ile Ser Ile Thr Asn Ala Thr Val Glu
 130 135 140

Asp Ser Gly Thr Tyr Tyr Cys Thr Gly Lys Val Trp Gln Leu Asp Tyr
 145 150 155 160

Glu Ser Glu Pro Leu Asn Ile Thr Val Ile Lys Ala Pro Arg Glu Lys
 165 170 175

Tyr Trp Leu Gln Phe Phe Ile Pro Leu Leu Val Val Ile Leu Phe Ala
 180 185 190

Val Asp Thr Gly Leu Phe Ile Ser Thr Gln Gln Gln Val Thr Phe Leu
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 Phe Lys Gly Glu Asn Val Thr Leu Thr Cys Asn Gly Asn Asn Phe Phe
 20 25 30
 gaa gtc agt tcc acc aaa tgg ttc cac aat ggc agc ctt tca gaa gag 144
 Glu Val Ser Ser Thr Lys Trp Phe His Asn Gly Ser Leu Ser Glu Glu
 35 40 45
 aca aat tca agt ttg aat att gtg aat gcc aaa ttt gaa gac agt gga 192
 Thr Asn Ser Ser Leu Asn Ile Val Asn Ala Lys Phe Glu Asp Ser Gly
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 gaa tac aaa tgt cag cac caa caa gtt aat gag agt gaa cct gtg tac 240
 Glu Tyr Lys Cys Gln His Gln Gln Val Asn Glu Ser Glu Pro Val Tyr
 65 70 75 80
 ctg gaa gtc ttc agt gac tgg ctg ctc ctt cag gcc tct gct gag gtg 288
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Val Met Glu Gly Gln Pro Leu Phe Leu Arg Cys His Gly Trp Arg Asn				
	100	105	110	
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Trp Asp Val Tyr Lys Val Ile Tyr Tyr Lys Asp Gly Glu Ala Leu Lys				
	115	120	125	
tac tgg tat gag aac cac aac atc tcc att aca aat gcc aca gtt gaa				432
Tyr Trp Tyr Glu Asn His Asn Ile Ser Ile Thr Asn Ala Thr Val Glu				
	130	135	140	
gac agt gga acc tac tac tgt acg ggc aaa gtg tgg cag ctg gac tat				480
Asp Ser Gly Thr Tyr Tyr Cys Thr Gly Lys Val Trp Gln Leu Asp Tyr				
	145	150	155	160
gag tct gag ccc ctc aac att act gta ata aaa gct ccg cgt gag aag				528
Glu Ser Glu Pro Leu Asn Ile Thr Val Ile Lys Ala Pro Arg Glu Lys				
	165	170	175	
tac tgg cta caa ttt ttt atc cca ttg ttg gtg gtg att ctg ttt gct				576
Tyr Trp Leu Gln Phe Phe Ile Pro Leu Leu Val Val Ile Leu Phe Ala				
	180	185	190	
gtg gac aca gga tta ttt atc tca act cag cag cag gtc aca ttt ctc				624
Val Asp Thr Gly Leu Phe Ile Ser Thr Gln Gln Gln Val Thr Phe Leu				
	195	200	205	
ttg aag att aag aga acc agg aaa ggc ttc aga ctt ctg aac cca cat				672
Leu Lys Ile Lys Arg Thr Arg Lys Gly Phe Arg Leu Leu Asn Pro His				
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cct aag cca aac ccc aaa aac aac tga				699
Pro Lys Pro Asn Pro Lys Asn Asn				
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Phe Phe Ala Pro Asp Gly Val Leu Ala Val Pro Gln Lys Pro Lys Val	
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Ser Leu Asn Pro Pro Trp Asn Arg Ile Phe Lys Gly Glu Asn Val Thr	
35 40 45	

ctt aca tgt aat ggg aac aat ttc ttt gaa gtc agt tcc acc aaa tgg	192
Leu Thr Cys Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp	
50 55 60	

ttc cac aat ggc agc ctt tca gaa gag aca aat tca agt ttg aat att	240
Phe His Asn Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile	
65 70 75 80	

gtg aat gcc aaa ttt gaa gac agt gga gaa tac aaa tgt cag cac caa	288
Val Asn Ala Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln	
85 90 95	

caa gtt aat gag agt gaa cct gtg tac ctg gaa gtc ttc agt gac tgg	336
Gln Val Asn Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp	
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ctg ctc ctt cag gcc tct gct gag gtg gtg atg gag ggc cag ccc ctc	384
Leu Leu Leu Gln Ala Ser Ala Glu Val Val Met Glu Gly Gln Pro Leu	
115 120 125	

ttc ctc agg tgc cat ggt tgg agg aac tgg gat gtg tac aag gtg atc	432
Phe Leu Arg Cys His Gly Trp Arg Asn Trp Asp Val Tyr Lys Val Ile	
130 135 140	

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Tyr Tyr Lys Asp Gly Glu Ala Leu Lys Tyr Trp Tyr Glu Asn His Asn	
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act gta ata aaa gct 591
 Thr Val Ile Lys Ala
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Ser Leu Asn Pro Pro Trp Asn Arg Ile Phe Lys Gly Glu Asn Val Thr
 35 40 45

Leu Thr Cys Asn Gly Asn Asn Phe Phe Glu Val Ser Ser Thr Lys Trp
 50 55 60

Phe His Asn Gly Ser Leu Ser Glu Glu Thr Asn Ser Ser Leu Asn Ile
 65 70 75 80

Val Asn Ala Lys Phe Glu Asp Ser Gly Glu Tyr Lys Cys Gln His Gln
 85 90 95

Gln Val Asn Glu Ser Glu Pro Val Tyr Leu Glu Val Phe Ser Asp Trp
 100 105 110

Leu Leu Leu Gln Ala Ser Ala Glu Val Val Met Glu Gly Gln Pro Leu
 115 120 125

Phe Leu Arg Cys His Gly Trp Arg Asn Trp Asp Val Tyr Lys Val Ile
 130 135 140

Tyr Tyr Lys Asp Gly Glu Ala Leu Lys Tyr Trp Tyr Glu Asn His Asn

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	130					135					140					

gac	agt	gga	acc	tac	tac	tgt	acg	ggc	aaa	gtg	tgg	cag	ctg	gac	tat	480
Asp	Ser	Gly	Thr	Tyr	Tyr	Cys	Thr	Gly	Lys	Val	Trp	Gln	Leu	Asp	Tyr	
145					150				155						160	

gag	tct	gag	ccc	ctc	aac	att	act	gta	ata	aaa	gct					516
Glu	Ser	Glu	Pro	Leu	Asn	Ile	Thr	Val	Ile	Lys	Ala					
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Glu	Val	Ser	Ser	Thr	Lys	Trp	Phe	His	Asn	Gly	Ser	Leu	Ser	Glu	Glu
		35					40					45			

Thr	Asn	Ser	Ser	Leu	Asn	Ile	Val	Asn	Ala	Lys	Phe	Glu	Asp	Ser	Gly
	50					55					60				

Glu	Tyr	Lys	Cys	Gln	His	Gln	Gln	Val	Asn	Glu	Ser	Glu	Pro	Val	Tyr
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Leu	Glu	Val	Phe	Ser	Asp	Trp	Leu	Leu	Leu	Gln	Ala	Ser	Ala	Glu	Val
				85					90					95	

Val	Met	Glu	Gly	Gln	Pro	Leu	Phe	Leu	Arg	Cys	His	Gly	Trp	Arg	Asn
			100					105					110		

Trp	Asp	Val	Tyr	Lys	Val	Ile	Tyr	Tyr	Lys	Asp	Gly	Glu	Ala	Leu	Lys
		115					120					125			

Tyr	Trp	Tyr	Glu	Asn	His	Asn	Ile	Ser	Ile	Thr	Asn	Ala	Thr	Val	Glu
	130					135					140				

Asp Ser Gly Thr Tyr Tyr Cys Thr Gly Lys Val Trp Gln Leu Asp Tyr
145 150 155 160

Glu Ser Glu Pro Leu Asn Ile Thr Val Ile Lys Ala
165 170